

FIG S2. Transcriptome validation by qPCR. (A) Relative expression of genes involved in bacillibactin biosynthesis (*dhbA*, *dhbF* and *btr*), iron uptake (*feuD*) and biofilm matrix production (*epsD*, *tasA*) of Bv in tri-species biofilm compared with monoculture. (B) Relative expression of genes involved in siderophore biosynthesis in Bc in tri-species biofilm compared with monoculture. (C) Relative expression of *ilvC* and *ilvH* genes of the three isolates in tri-species biofilm compared with monoculture. Data presented are the mean \pm s.d. (n = 3).

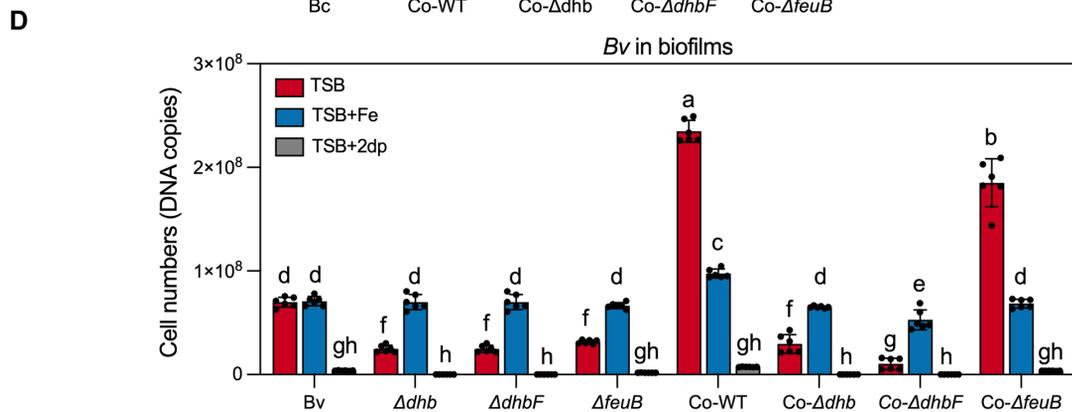
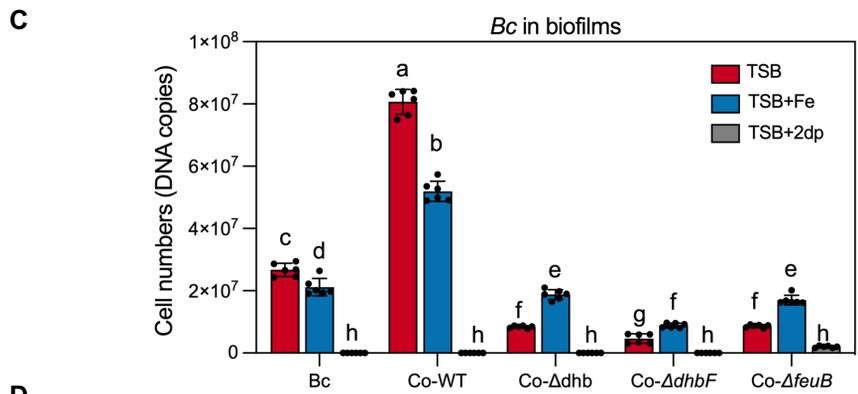
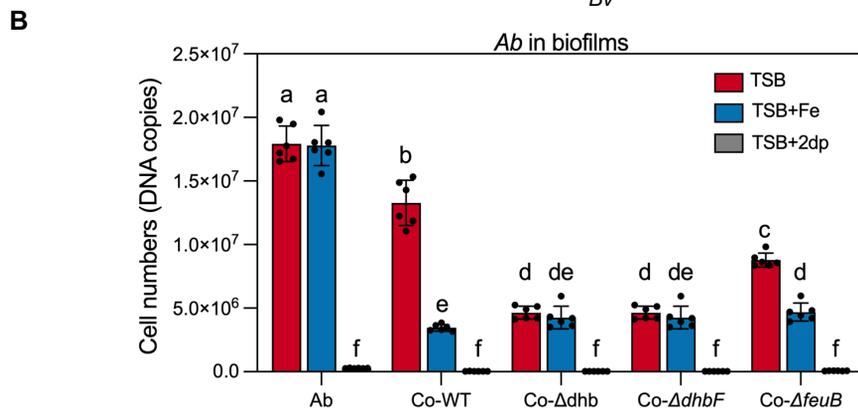
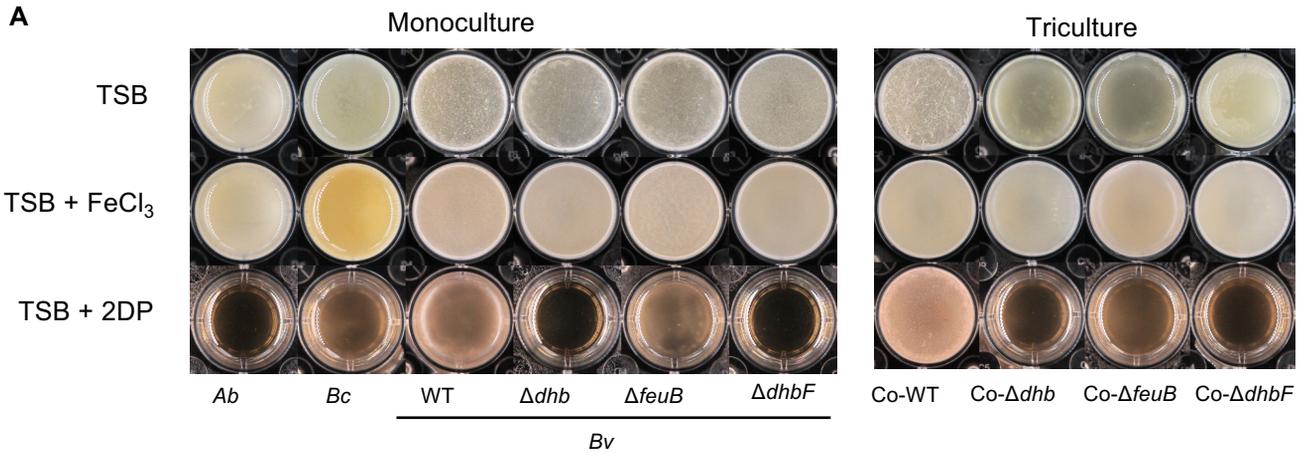


FIG S3. Biofilm phenotype and cell numbers quantification. (A) The biofilms formation in different treatments. **(B-D)** Cell numbers of *Ab*, *Bc* and *Bv*. Data presented are the mean \pm s.d. ($n = 6$). Different letters indicate statistically significant ($p < 0.05$) differences according to one-way ANOVA followed by Tukey's HSD post-hoc test.

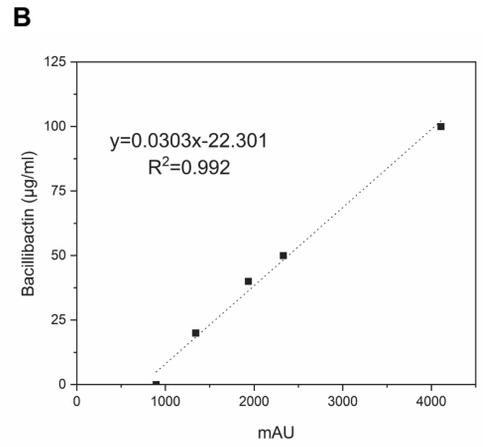
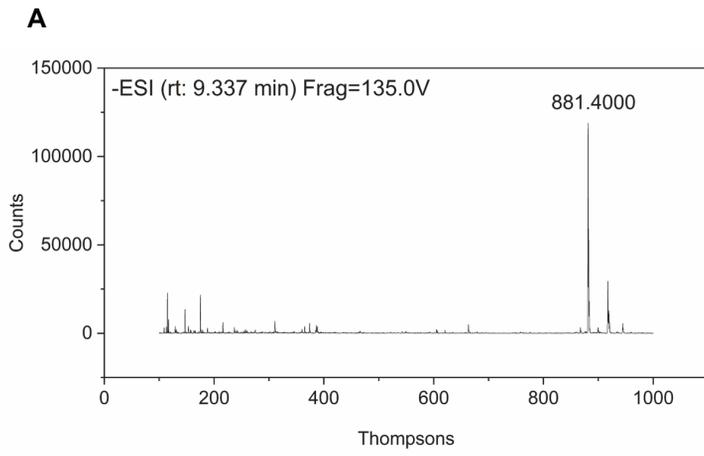


FIG S4. Analysis of bacillibactin. (A) LC-MS data of bacillibactin. **(B)** The standard curve of bacillibactin by HPLC.

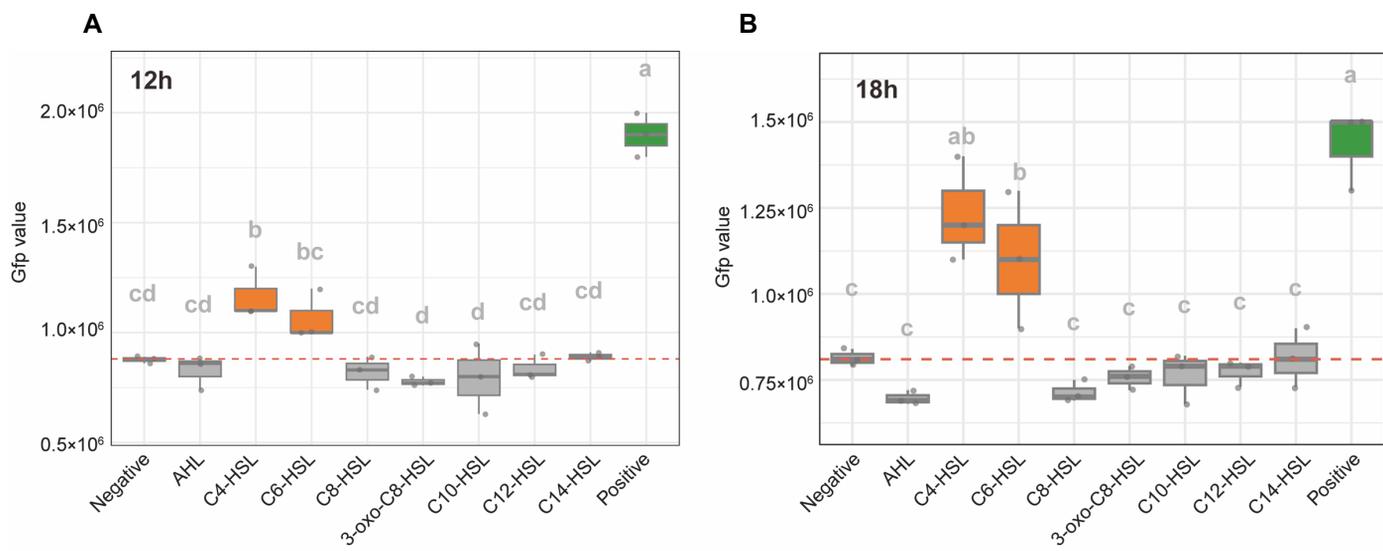


FIG S5. The *dhb* gene expression of Bv treated with different chemicals at 12h (A) and 18h (B). Negative: Bv *pdhb-gfp* alone. Positive: 50% of *Bc* supernatant with medium. Data presented are the mean \pm s.d. ($n = 3$). Different letters indicate statistically significant ($p < 0.05$) differences according to one-way ANOVA followed by Tukey's HSD post-hoc test. Standard chemical list: Acetyl-L-Homoserine lactone (AHL), N-Butanoyl-L-homoserine lactone (C4-HSL), N-Hexanoyl-L-homoserine lactone (C6-HSL), N-Octanoyl-L-homoserine lactone (C8-HSL), N-(3-Oxo-octanoyl)-DL-homoserine lactone (3-oxo-C8-HSL), N-decanoyl-L-Homoserine lactone (C10-HSL), N-Dodecanoyl-L-Homoserine Lactone (C12-HSL), N-Tetradecanoyl-DL-Homoserine Lactone (C14-HSL).

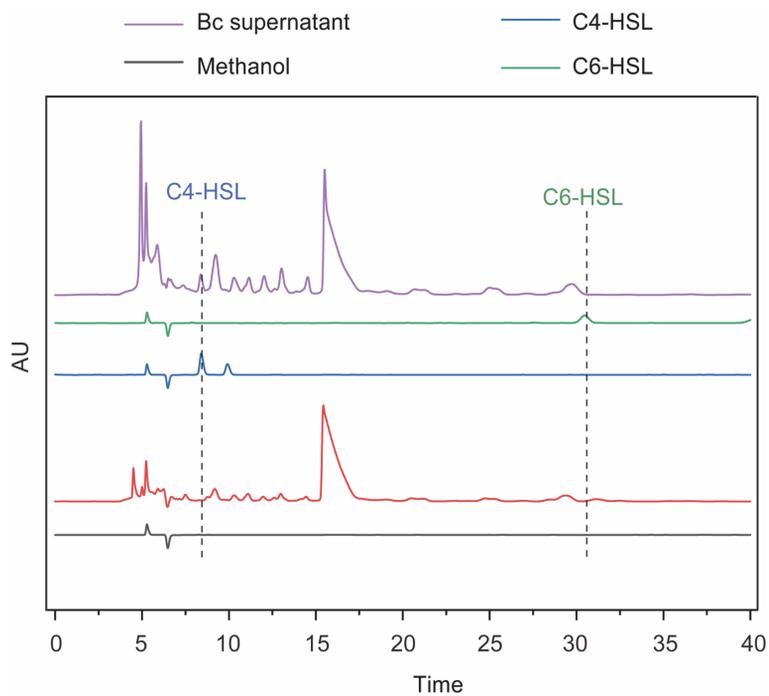


FIG S6. HPLC analysis Bc supernatant compared with C4-HSL and C6-HSL. The peak time of C4-HSL (N-Butanoyl-L-homoserine lactone) is 8.35 min The peak time of C6-HSL (N-Hexanoyl-L-homoserine lactone) is 30.50 min.

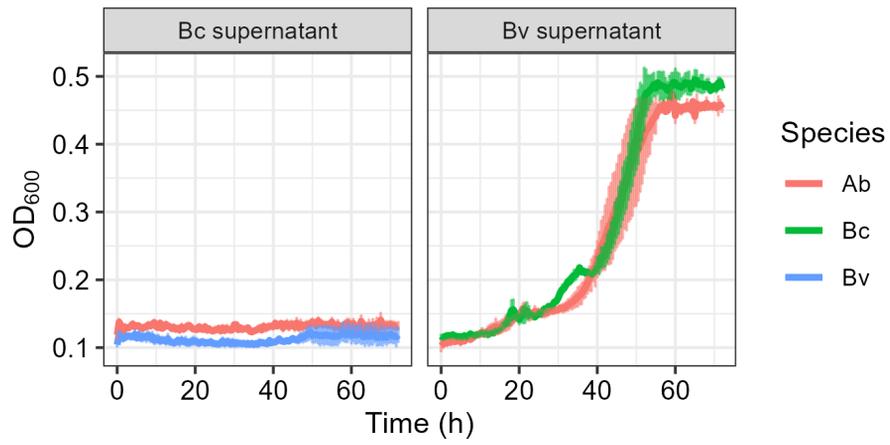


FIG S7. Growth of *Ab*, *Bc* and *Bv* in spent medium of either *Bc* or *Bv*. Data presented are the mean \pm s.d. (n = 5).

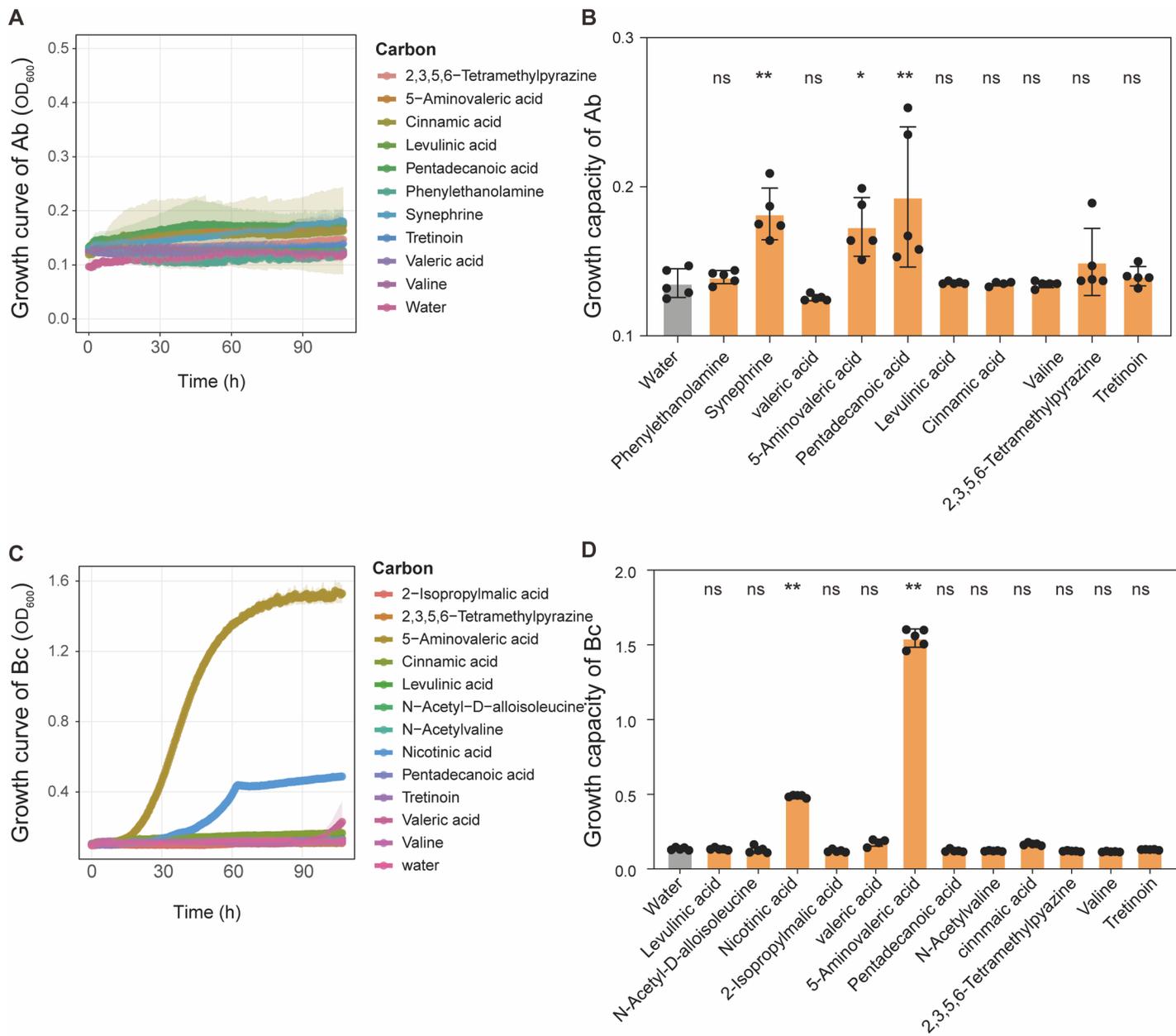


FIG S8. Metabolome results validation by growth curve. (A&B) Growth curves of *Ab* and growth capacity in M9 medium with corresponding compounds as sole carbon sources. **(C&D)** Growth curves of *Bc* and growth capacity in M9 medium with corresponding compounds as sole carbon sources. Growth capacity is the maximum population size. The value is the maximum OD_{600} . Data presented are the mean \pm s.d. ($n = 5$). Different letters indicate statistically significant ($p < 0.05$) differences according to one-way ANOVA followed by Tukey's HSD post-hoc test.